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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/713,588		11/13/2003	Stephen M. Sakamoto	P1731US01	1988
22267	7590	08/02/2005		EXAMINER	
CROWE	AND	DUNLEVY, P.C.	TSAY, FRANK		
20 NORTH BROADWAY SUITE 1800			ART UNIT	PAPER NUMBER	
OKLAHOMA CITY, OK 73102-8273				3672	
			DATE MAILED: 08/02/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Summers	10/713,588	SAKAMOTO, STEPHEN M.				
Office Action Summary	Examiner	Art Unit				
The MAIL ING DATE of this constraint of the	Frank S. Tsay	3672				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on 12 No. 2a)□ This action is FINAL. 2b)⊠ This 3)□ Since this application is in condition for alloware closed in accordance with the practice under E.	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) ☐ Claim(s) 1-19 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-4,6-10,12-16,18 and 19 is/are rejected. 7) ☐ Claim(s) 5,11 and 17 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 10 December 2003 is/an Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11. The oath or declaration is objected to by the Examine 11. ■	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)	•					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date U.S. Patent and Trademark Office	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "130" has been used to designate both "mechanical seal" and "snap ring" (see page 5, lines 16 and 20). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 4, 6-8, 10, 12-14, and 16, 18 and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Hadley (US 6,568,686, filed 12/5/2000).

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The mechanical seal is met by mechanical rotating seal 10 or 100 shown in Figs 1 and 4, which is substantially surrounding the shaft 9 for preventing flow of wellbore fluid along the shaft (see Fig. 6, col. 4, lines 37+). The spring is met by coil spring 70 or 170 which is surrounding the shaft and providing axial force along the shaft (col. 4, Lines 54+). The spring retainer is anticipated by retainer 140, which is having detent structure to hold the spring (see Fig. 6, for example). The runner fails to distinguish from the seal housing which is in interlocking engagement with the spring and rotating with the spring retainer due to its locking engagement with the rotating shaft by an annular retainer spring and ball structure (col. 7, lines 20+). The O-ring is met by O-ring 160, and the mating ring or snap ring in the respective claims fails to distinguish from the annular retainer spring 18 which encircles the shaft and contacts the runner 120.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 9, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hadley '686.

The use of a set screw in stead of a retainer ring to affix the spring retainer, in examiner's view is merely a matter of simple engineering modification and is well known in the art, and fails to render a patentable distinction since it has been held that a

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limitation of the claimed combination which present no novel or unexpected result over a similar feature used in the prior art references, and solved no stated problem, was merely an obvious matter of design choice within the skill of the art. [<u>In re Kuhle</u>, 526 F2d 523; 188 USPQ 7 (CCPA 1975). <u>In re Gazda</u>, 42 CCPA 770; 219 F2d 449; 104 USPQ 400 (1955)].

Allowable Subject Matter

Claims 5, 11, and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Tuzson, Turner, Jr. Wilson, and Matsumoto et al all show sealing arrangements for submersible pumps.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank S. Tsay whose telephone number is (517) 272-7038. The examiner can normally be reached on Monday thru Friday, 7:30am-5:00 pm, 2nd Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David J. Bagnell can be reached on (517)272-6999. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Frank S Tsay Primary Examiner Art Unit 3672

7/26/05